

\$1 Patent Award Goes To Verne B. Gritzner

ORGDP Development Gets Recognition

The latest Y-12 recipient of a \$1 patent award is Verne B. Gritzner, a superintendent in the Mechanical Operations Division. This is the stipulated amount given for the assignment of a patent to the United States Government by Union Carbide Nuclear Company.

Gritzner received his award for his development at Oak Ridge Gaseous Diffusion Plant of a "Circular Flow Tester." The patent application is of a classified nature. He came to Y-12 August 1, 1961, after working at ORGDP since August 13, 1944. A native of Nebraska, Gritzner is an alumnus from the University of Nebraska, Lincoln, Neb.

He lives with his family at 114½ California Ave., Oak Ridge.

The award letter came from Clarence E. Larson, UCNC vice president, and read:

Union Carbide Nuclear Company, UCC, takes pleasure in presenting you the attached (\$1 bill).

"This is the dollar stipulated in the Patent Assignment to the United States of America by you in connection with the filing of a patent application on your Oak Ridge Gaseous Diffusion Plant development, entitled 'Circular Flow Tester.'"

Another Patent Granted

The Official Gazette from the U. S. Patent Office recently published the joint patent granted to Ralph P. Levey, Jr. and Andrew H. Fowler. Under patent number 3,012,848 the development was granted a patent December 12, 1961, and is entitled "Method for Sensing Degree of Fluidization in a Fluidized Bed."

The development is explained in the Gazette as follows: "The method of controlling the rate of gas flow into a fluid-bed reactor, into which powder material and gas are fed, so as to obtain substantially complete fluidization of said material with said reactor, comprising the steps as follows: feeding said powder material into said reactor at a selected controlled rate, vibrating a spring-supported rod partially immersed in said material at the resonant frequency of said rod, continuously generating a signal proportional to the amplitude of vibration of said rod, said amplitude of vibration being a measure of



STANDING ROOM ONLY SIGNS went up all over the room at the Y-12 Credit Union's annual meeting last Wednesday, January 17. The full membership meeting saw a new record set as more than 225 members turned up for the event. Above, Treasurer-Manager Lorena Causey reads the treasurer's report to members, closing out one of the busiest years the Y-12, or any Credit Union, ever had.

Mechanical Engineers Meet Thursday At Elks

The Oak Ridge Section of the American Society of Mechanical Engineers will meet tomorrow, Thursday, January 25, at the Elks Lodge Arkansas Ave., Oak Ridge. Social activities begin at 6 p.m., with dinner slated for 6:45. The meeting begins at 8.

Slated speaker is E. S. Bettis, Oak Ridge National Laboratory, who will speak of "A Review of Thermonuclear Developments."

Dinner reservations may be made by calling B. B. Smith, extension 8267; K. E. Jamison, 6861; or F. A. Ferrari, 8206.

the degree of a fluidization within said reactor up to a threshold where complete fluidization takes place, and changing the rate of gas flow to said reactor in response to changes of said signal to stabilize said amplitude of vibration at a constant value corresponding to substantially complete fluidization with said reactor."

Levey is in Chemical Engineering Development and Fowler is in Process Analysis. Their patent application was filed November 12, 1958.



ACCEPTING HIS \$1 AWARD for a patent application on an Oak Ridge Gaseous Diffusion Plant development is Verne B. Gritzner, center, now in the Mechanical Operations Division. Division Superintendent J. M. Case, right, presents the letter to him, as Y-12 Plant Superintendent Robert G. Jordan looks on at left.



MEET YOUR CREDIT UNION'S BOARD OF DIRECTORS! Newly installed members of the Board of Directors of the Y-12 Credit Union are shown, from left, Tom Stephens, re-elected to another term; C. V. Ketron, ORNL employee in Y-12; Lorena Causey; out-going president W. R. McGill; newly-elected president E. G. Richardson; and W. E. Davis. Also elected to the board was W. C. Moisson, who was unable to attend the meeting.

16,412 Visitors Took ORNL Tour Last Year

Students Represent Fourteen States

A total of 16,412 persons visited Oak Ridge National Laboratory during 1961. This compares with 16,343 visitors in 1960.

The greatest number of visitors included those on guided tours of the Laboratory.

Students representing 14 states were among the group. Foreign visitors totaled 1,114, representing 27 countries as official visitors.

Touring groups in ORNL have the opportunity to see two reactors, a radioisotope "hot cell," the radioisotope packaging and shipping area, and the computer, the ORACLE.

ORNL's open house for employees and their families drew over 7,000 visitors during the September 23-24 weekend.

Oak Ridge National Laboratory is operated by Union Carbide Nuclear Company for the United States Atomic Energy Commission.

'Culture-Cultures' Add To Nation's Economy

The cultural boom in America continues. Recent government released figures showed that theatre and opera attendance increased 100 percent in the last ten years. As for the practical aspects, the interest in the arts and culture in general is being translated into a multi-billion dollar boost to the income annually. The Lincoln Center for Performing Arts in New York City alone is costing \$142,000,000.

SAFETY SCOREBOARD

The Y-12 Plant Has
Operated
24 Days Or
699,000 Man-Hours
(Unofficial Estimate)
Without A Disabling
Injury
Through January 21
Phone 7755
For Daily Report
On Accident-Free Hours

Credit Union Sets Record For '61 Meet

Members Flock To Hear Report Of Busiest Year

The Y-12 Employees Federal Credit Union set a record in attendance last week. More than 225 members attended the annual meeting held Wednesday, January 17, at the Ridge Recreation Hall.

A new board of directors was elected for 1962. Only two vacancies existed on the board. Nominations put before the group from the nominating committee were T. J. Stephens, Microreproduction and Engineering Services; and W. C. Moisson, Project Engineering; for members of the board; and D. W. Hackett, Physical Testing, as a member to the Credit Committee. Nominated from the floor were Wayne W. Thompson, Electrical; and John H. Byrd, General Machine Shop. By secret ballot Stephens, Moisson, and Hackett were elected. Other board members on carry-over terms are W. R. McGill, Fire and Guard Department; E. G. "Sunny" Richardson, Safety; W. E. Davis, Security; C. V. Ketron, Oak Ridge National Laboratory employee in Y-12; and Lorena Causey.

New Officers Elected

Officers elected by the new board are E. G. Richardson, president; T. J. Stephens, vice-president; Lorena Causey, treasurer-manager; W. E. Davis, secretary; and W. R. McGill, assistant treasurer.

The new Credit Committee consists of H. A. Pohto, chairman, Mechanical Engineering; D. W. Hackett, Physical Testing; C. E. Harris, Research Services; Fred Wilkinson, Lorena Causey, Credit Union; and alternate C. C. Bolling, Janitors Department.

Committees Organized

Also appointed by the board were members of the Supervisory Committee C. V. Ketron, chairman, ORNL employee in Y-12; H. R. Gwinn, ORNL; and Jim Whitten, Z Area and Dispatching. Bill Moisson was named chairman of the Education Committee.

The nominating committee for new officers consisted of W. O. Elam, J. C. Bowles and M. P. Crews.

1961 Report Given

Out-going president W. R. McGill read the Report of the Board of Directors of Activities for 1961. It was pointed out again that this was the big year for the Credit Union, in other ways besides the new building. The dividend of five percent per annum, payable semi-annually was declared official. McGill pointed out that more than \$29,000,000 had been handled by the credit organization in its 11 and one-half years of existence.

More than \$24,000,000 has been loaned in 60,000 loans to Y-12ers during the life of the Credit Union. By efficient management, the operating cost for 1961 was kept at 32.51% of the gross income, well below the national average for other credit unions of comparable size.

It is now possible to finance real estate outside as well as inside Oak Ridge, with the interest rate set at three-fourths of one percent of the unpaid balance per

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The Bulletin

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Here's a note of advice guaranteed to get the wife's attention! Just try any of these opening remarks: What have you done to your hair? How old will you be? Perfume? I don't smell anything. Is that a new dress? Some man called. Didn't leave his name. Did YOU cook this? Is that halter business supposed to show? They whispered something when you came in. Yeah, it's all right, but it makes you look older. Where shall we go?

There's little going on around the plant, let's see what they're doing down in

SHIFT SUPERINTENDENTS AND UTILITIES

Vacationing and visiting his grandson, Preston, four years old, is E. R. Bailey up to Ft. Knox, Ky. Wonder if he'll bring some of that stuff back that Ft. Knox is famous for? . . . Get well wishes are rushed to J. S. Wilson who caught the 'flu . . . N. M. Standridge is on the sick list, and best wishes to him also . . . Condolences to G. R. Beasley in the death of his grandmother . . . J. D. Tolliver is vacationing in Panama City, Fla. and Columbus, Ga. He also planned to visit his father in Williamsburg, Ky. . . . A late flash in makes H. V. Davis a great grandfather for the first time. No details from Detroit on the big event, but buttons are popping all over the place.

One of the quickest ways in the world to meet someone is to pick up the wrong golf ball.

MECHANICAL OPERATIONS



Patricia Ann Brock

No one around the James Brock household will have any trouble remembering little Patricia Ann's birthday. She was born on her father and mother's birthday! The great day came January 2, 1962. She weighed seven pounds, three and one-half ounces. The father is in the Sunflower Shop . . . T. H. Miller is welcomed in, transferring from the General Machine Shop.

J. M. Patterson, over in Special Mechanical Production, took another week's vacation to get over that week he took when all the snow came!



Terri Lynn Worsham

The General Machine Shop sends this little tyke's picture along. She was born January 11, at St. Mary's Hospital, Knoxville, weighing seven pounds, six ounces. She's little Terri Lynn Worsham, the daughter of Mr. and Mrs. Eugene Worsham. They live at 3812 Seiber Drive, Knoxville.

Other Shoppers are congratulating F. K. Clabough on the birth

of a new grandson, Mark Anthony Clabough, born January 15, weighing seven pounds, 14 ounces . . . W. P. Brown slipped away on a vacation without telling where he was going . . . On the sick list are D. R. Dunn, K. C. Parsons, M. A. Parrish, and J. E. Cooley — and best wishes for speedy recoveries are sent each and all.

Walk in your sleep if you must, but you'd better stay awake while driving.

MAINTENANCE

Electrical reports they're glad to see A. Mills back on the job after a bout . . . W. F. Smith is ailing and best wishes to him . . . A. B. Currens took a vacation to enjoy the big snows a couple of weeks ago . . . Sympathy is extended to R. V. Walker and his family in the recent death of his aunt . . . The B. C. Neubert family has started the new year off in fine fashion by welcoming a daughter, Elizabeth Diane, to the fold. She joined the household on January 7, weighing seven pounds, seven ounces. Congratulations! . . .

TECHNICAL

Radiation Safety beams in with news that Eddie Roberts is a papa for the first time around. Little Phillip Edmond made his appearance at Rockwood Hospital January 9, weighing eight pounds, nine ounces.

Statistical Services is sending get well wishes to Eric Johnson, ill at home, after a stay in the hospital.

The animal most women like to bring out in men is mink.

INDUSTRIAL RELATIONS

Benefit Plans folks hope Carol Houser will be back with them soon. She's missed around the grounds.

Ralph Pearson, up in Training, got bit (bitten?) by the 'flu bug, and best wishes to him.

Down in the Fire and Guard Department best wishes to P. C. Goins, out with a bum ankle and to D. E. Bailey, in Oak Ridge Hospital . . . There's good news from Capt. M. L. Woodard and H. J. Bailey, seems both are improving and hope to be back soon.



Get well wishes are sent the following Y-12 employees who were ill in Oak Ridge Hospital last week:

Carol W. Houser, Benefit Plans; Lois K. Penland, Tabulating Services; Karl E. Kahley, Product Processing; James D. Starnes, Special Mechanical Production; Frank E. Morrow, Beta Two; Arthur O. Phillips, Receiving; Jack W. Powers, General Machine Shop; Edwin E. Spradlin, Steam Plant; David E. Bailey, Fire Department; Aleene G. Haney, Production Analysis; Lige M. Gibson, Process Maintenance; Edd Webber, Tool Department; and Clinton A. Queen, Stores.

LAWFUL LITTERING

At least one place on earth permits littering. A doctor's office in La Jolla, California, has a sign on the wall: "It is legal to litter here." The doctor is a veterinarian.



DAUGHTERS OF Y-12ERS selling tickets to the Young People's Film Series, sponsored by the Girl Scouts, are from left, Sherry Zapp, Jane Fortenberry, and Melissa Marrow. Sherry is the daughter of Frank Zapp, Oak Ridge National Laboratory employee in Y-12; Jane is the daughter of M. J. Fortenberry, Special Projects; and Melissa is the daughter of George Marrow, Chemical Engineering Development.

Y-12ers' Daughters Sell Scout Movie Series Season Tickets

Senior Girl Scouts in Oak Ridge are sponsoring a film series, held Saturday afternoons at Jefferson Junior High School, Oak Ridge. The series is designed especially for youth. Complete sets of the six film series are available from the above members for one dollar. One film has already been shown.

The remaining schedule is:

Father is a Bachelor, February

Gulliver's Travels, February 17
Frances in the Haunted House, March 3

Tales of Robin Hood, March 17
The Great Adventure, April 17

Proceeds from the sales of tickets will be used to sponsor all senior troop projects and activities in Oak Ridge. Tickets are available from three Y-12 daughters, Sherry Zapp, daughter of Mr. and Mrs. Frank Zapp; Jane Fortenberry, daughter of Mr. and Mrs. M. J. Fortenberry; and Melissa Marrow, daughter of Mr. and Mrs. George Marrow.

"Heidi" was the first film shown in the series, shown Saturday, January 20. Attendance is not restricted to young people. Many of the films appeal to adults as well as younger people.

Tennessee Sales Tax Deductible On Federal Income Tax Return

Residents of Tennessee filing Federal income tax returns may use the recently released table of average state tax deductions as a guide in preparing their 1961 returns. The table shown below is furnished by the Internal Revenue Department.

Technically, every taxpayer may be required to show proof of his deduction claims on the "long form." Normally deductions in the amount below would not be questioned.

Those filing on the short form take the standard ten percent claim, and may not use sales tax

as a deduction.

Large purchases with cash outlays, such as automobiles, may be added to the figures below as a sales tax deduction. However, IRS advises that proof of such a tax paid be kept in case it was ever questioned.

Citizens have until April 15 to file their income tax returns. This falls on Sunday this year, so the date of deadline probably will be extended to the 16th . . . at midnight. This is the usual custom, although no official announcement has come from the revenue offices.

| Adjusted Gross Income | Single Person | Two Persons | Three Persons | Four Persons | Five Persons | Six or more |
|-------------------------|---------------|-------------|---------------|--------------|--------------|-------------|
| Under \$1000 | \$ 9 | \$ 16 | \$ 23 | \$ 33 | \$ 36 | \$ 37 |
| \$1000 under \$1500 | 24 | 28 | 30 | 33 | 36 | 37 |
| \$1500 under \$2000 | 31 | 35 | 38 | 40 | 43 | 45 |
| \$2000 under \$2500 | 37 | 44 | 46 | 49 | 54 | 57 |
| \$2500 under \$3000 | 43 | 52 | 54 | 57 | 64 | 67 |
| \$3000 under \$3500 | 50 | 60 | 63 | 65 | 72 | 76 |
| \$3500 under \$4000 | 55 | 66 | 70 | 74 | 81 | 85 |
| \$4000 under \$4500 | 61 | 73 | 78 | 83 | 90 | 95 |
| \$4500 under \$5000 | 67 | 80 | 86 | 91 | 98 | 105 |
| \$5000 under \$5500 | 72 | 88 | 93 | 99 | 106 | 114 |
| \$5500 under \$6000 | 77 | 94 | 100 | 106 | 114 | 124 |
| \$6000 under \$6500 | 82 | 100 | 106 | 114 | 122 | 133 |
| \$6500 under \$7000 | 86 | 104 | 111 | 120 | 129 | 142 |
| \$7000 under \$7500 | 89 | 108 | 116 | 126 | 137 | 151 |
| \$7500 under \$8000 | 92 | 112 | 121 | 132 | 144 | 159 |
| \$8000 under \$8500 | 95 | 116 | 125 | 137 | 150 | 167 |
| \$8500 under \$9000 | 97 | 120 | 129 | 142 | 156 | 175 |
| \$9000 under \$9500 | 99 | 124 | 132 | 148 | 162 | 183 |
| \$9500 under \$10,000 | 101 | 128 | 135 | 153 | 167 | 192 |
| \$10,000 under \$11,000 | 103 | 131 | 140 | 160 | 174 | 200 |
| \$11,000 under \$12,000 | 104 | 135 | 144 | 167 | 182 | 213 |
| \$12,000 under \$13,000 | 105 | 138 | 146 | 173 | 188 | 224 |
| \$13,000 under \$14,000 | 106 | 139 | 147 | 178 | 193 | 235 |
| \$14,000 under \$15,000 | 106 | 140 | 148 | 181 | 197 | 244 |
| \$15,000 under \$16,000 | 107 | 140 | 148 | 183 | 199 | 251 |
| \$16,000 under \$17,000 | 107 | 141 | 149 | 184 | 200 | 258 |
| \$17,000 under \$18,000 | 108 | 141 | 149 | 184 | 200 | 258 |
| \$18,000 under \$19,000 | 108 | 142 | 150 | 185 | 201 | 259 |
| \$19,000 under \$20,000 | 109 | 142 | 150 | 185 | 201 | 260 |

Y-12ers Celebrating 15, 10 Year Anniversaries

Congratulations to the following Y-12ers who will observe 15 and 10-year anniversaries with Carbide within the next few days.

15 YEARS

Ada B. Lee, Janitors Department, January 25.

Millard F. Moore, Timekeeping, January 27.

Lawrence B. Huddleston, Tool Department, January 29.

10 YEARS

Ann H. Rackley, Security, January 24.

Frank Marlin, Mechanical Maintenance, January 25.

William D. Clapp, Jr., Physical Testing, January 28.

Samuel Kite, Utilities, January 28.

James C. Morton, Chemical, January 28.

Lawrence R. Phillips, Chemistry Development, January 28.

Ramond Max Lawson, Electrical Engineering, January 29.

Dorothy K. Grizzell, Engineering Division, January 29.

Chester E. Crowe, TW Shop, January 30.

'Auntie Mame' Continues To Roll 'Em In Aisle

Many Y-12ers are adding to the hilarity going on currently at the Oak Ridge Community Playhouse, as "Auntie Mame" rolls them in the aisles again this week-end. The popular play will be repeated this Thursday, Friday and Saturday, January 25, 26, 27. Current time is announced as 8:20 p.m.

Playhouse officials note that there are a few seats available at the box office. Movie goers remembered Rosalind Russell in the title role of the unbelievable Mame.

JOIN THE PARTY

Nine of every ten persons who file an income tax return make less than \$10,000 a year.

Second Half Basketball Play Begins As Atoms Start Big

Some Make-Up Games Make First Half Incomplete; Are Scheduled For Next Week

The Carbide Basketball League started its second half last week. A few games are to be rescheduled for the first half of play before winners of this period can be declared.

Only one first half game was played last week as two Y-12 teams clashed, the Atoms bringing the American Eagles to the ground by a score of 48-44. Jim George, Atoms, fired 20 points, helped along by Ed Cothron's 10. John Pridgeon led the losers with 16 tallies.

The big Atoms started off the second half of the season by romping over Oak Ridge Gaseous Diffusion Plant's favorite Lab Demons, 46 to 37. Again Jim George led his team to victory, this time with 24 points. Dan Harrison, Edd Woy, and Jim McCall led the Demons with eight points each.

In the latter part of the week, the Atoms took the Kingston Five 53-34. Don Forrester led the victors this time with 10 points; George only scored nine. Jim Batch led the Five with 13 points.

Y-12's American Eagles began the second half winning one by forfeit and by losing a close one to the ORGDP Lab Demons. Via forfeit they picked up an easy win over the Hoopniks. Falling to the Lab Demons 39 to 34, the Eagles were led by Ralph Vaughn with 13 and Dan Greaser with nine. Edd Woy led the victors with 12 points.

The Kingston Five gained a forfeit over the B Shift team. Other forfeits saw the Y-12 Eagles over the Hoopniks.

Incomplete first half standings:

| Team | W | L |
|-----------------|---|---|
| Atoms | 6 | 1 |
| Lab Demons | 5 | 1 |
| Peons | 3 | 3 |
| American Eagles | 2 | 4 |
| Jay Birds | 1 | 4 |
| Hoopniks | 1 | 4 |
| Kingston Five | 1 | 4 |
| B Shift | 0 | 5 |

Second Half standings follow:

| Team | W | L |
|-----------------|---|---|
| Atoms | 2 | 0 |
| Lab Demons | 1 | 1 |
| Kingston Five | 1 | 1 |
| American Eagles | 1 | 1 |
| B Shift | 0 | 1 |
| Hoopniks | 0 | 1 |
| Jay Birds | 0 | 1 |
| Peons | 0 | 0 |

Y-12 Rifle Team Takes Forfeit Win

Independents, ORNL Team Split

Y-12's 22-men in the 22-Rifle League last week took two points the easy way by default from the Oak Ridge Gaseous Diffusion Plant's riflemen. The rifers went on and shot anyway for the practice. High scratchers were Al Blay and Jack Huff with 100 each, and Bert Searles, Phil Vogelgesang, and Carl Brewster with 99.

The Independents and the Oak Ridge National Laboratory shooters split scores thus allowing Y-12's team to gain one point in league standing.

League standings follow:

| Team | W | L |
|--------------|----|----|
| ORNL | 14 | 3 |
| Y-12 | 11 | 6 |
| Independents | 9 | 8 |
| ORGDP | 0 | 17 |



"Hello, George. You know that high fence you built to keep Bobby in the yard?"

Two Y-12 Teams Clash On Alleys

Dry Hides Fall To Rodders' Wrath

Two Y-12 teams clashed in the D League for Carbide Bowlers last week, as the lower-seeded Rodders smashed the Dry Hides for the full four point count. Thanks to D. D. Thacker's high handicap scores of 256 and 680, the Rodders improved their league standing at the expense of the second place Dry Hides.

The Rodders also rolled high team series handicap scores by posting a big 3005.

League standings follow:

| Team | W | L |
|------------------|----|----|
| Sh-Booms | 33 | 19 |
| Dry Hides (Y-12) | 30 | 22 |
| ORINS | 30 | 22 |
| Alley Rams | 30 | 22 |
| Gassers | 30 | 22 |
| Pin Heads | 28 | 24 |
| Chemix | 27 | 25 |
| Rodders (Y-12) | 26 | 26 |
| Beryls | 25 | 27 |
| Termites | 23 | 29 |
| Guttersnipes | 14 | 38 |
| Hephex | 14 | 38 |

Eagles Win 3 In Volleyball

Y-12 Team Moves Up In Net League

The Y-12 volleyball team in the Carbide Volleyball League clipped the Oak Ridge National Laboratory Raiders last week for three games. The Y-12 Eagles won their games 15-6, 15-3, and 15-13.

Also playing, the ORNL Set Ups made boys out of the ORNL Old Men in three games, 15-6, 15-7, and 15-5. The ORSORT servers, also from ORNL, clipped Biology for three games, 15-4, 15-1, and 15-3.

Team

| Team | W | L |
|---------------|---|---|
| Set Ups | 6 | 0 |
| ORSORT | 5 | 1 |
| Eagles (Y-12) | 4 | 2 |
| X-10 Old Men | 3 | 3 |
| Biology | 0 | 6 |
| Raiders | 0 | 6 |
| A Shift | 0 | 0 |

HIGH SKI JUMP

The world's highest ski jump is near the Alpine resort of Oberstdorf, Germany. It permits leaps of 460 feet and more.



WHAT Y-12ERS do in their spare time might be the title of this picture. Pryce H. Hooker, formerly of the Alloy Shop, now employed in the General Machine Shop, rides this contraption. Nobody knew exactly what to call it. It was built by Olen Hutchinson, of the Alloy Shop, who also took this photograph of Hooker enjoying a ride on the three-wheeled varmint.

'61 Rodeo Fish Winners Named

Jim O'Kain Wins On Three Species

The tall tales are all in, as the Fishing Rodeo held annually in Y-12 closes on 1961's winners. The proof of the puddin', however, is in the eatin' and since entries in the annual rodeo require verifying pictures it's pretty safe to assume the following winners are more than just fish tales.

Some repeat winners are noted from other years. Below are the winners in each category with the size of their catch.

LARGEMOUTH BASS

1. James W. Graves, Beta Two, eight pounds.
2. Sam Edmonds, Stores, seven pounds.
3. John R. Bosson, Research Services, six pounds, 10 ounces.

SMALLMOUTH BASS

1. Chester L. Estes, Z Area and Dispatching, five pounds.
2. Elmer E. Green, Area Five Maintenance, four pounds, three ounces.
3. A. K. Self, Alpha Four Cascade Operations, three pounds, 13 ounces.

STRIPED BASS

1. V. B. Effler, General Machine Shop, three pounds, four ounces.
2. C. F. Huskey, Mechanical Maintenance, two pounds, eight ounces.
3. R. E. Levline, Special Mechanical Production, one pound, 10 ounces.

SAUGER, PIKE

1. J. D. Collins, Sunflower Shop, two pounds, eight ounces.
2. Jim O'Kain, Electrical Engineering, one pound, one-half ounce.

(Only two entries.)

WALLEYED PIKE

1. R. A. Wilson, Alloy Shop, five pounds, 2 ounces.
2. Emmett L. Moore, Fire Department, five pounds.
3. A. K. Self, Alpha Four Cascade Operations, two pounds, nine ounces.

TROUT

1. John Orr, Process Maintenance, three pounds, 14 ounces.
2. B. D. Cofer, Special Mechanical Production, three pounds.
3. Eddie Evans, Electrical Engineering, two pounds.

BLUEGILL OR BREAM

1. Jim G. O'Kain, Electrical Engineering, 10 ounces.
2. Eddie L. Evans, Electrical Engineering, nine and one-half ounces.
3. R. P. George, Electrical Engineering, nine ounces.

CRAPPIE

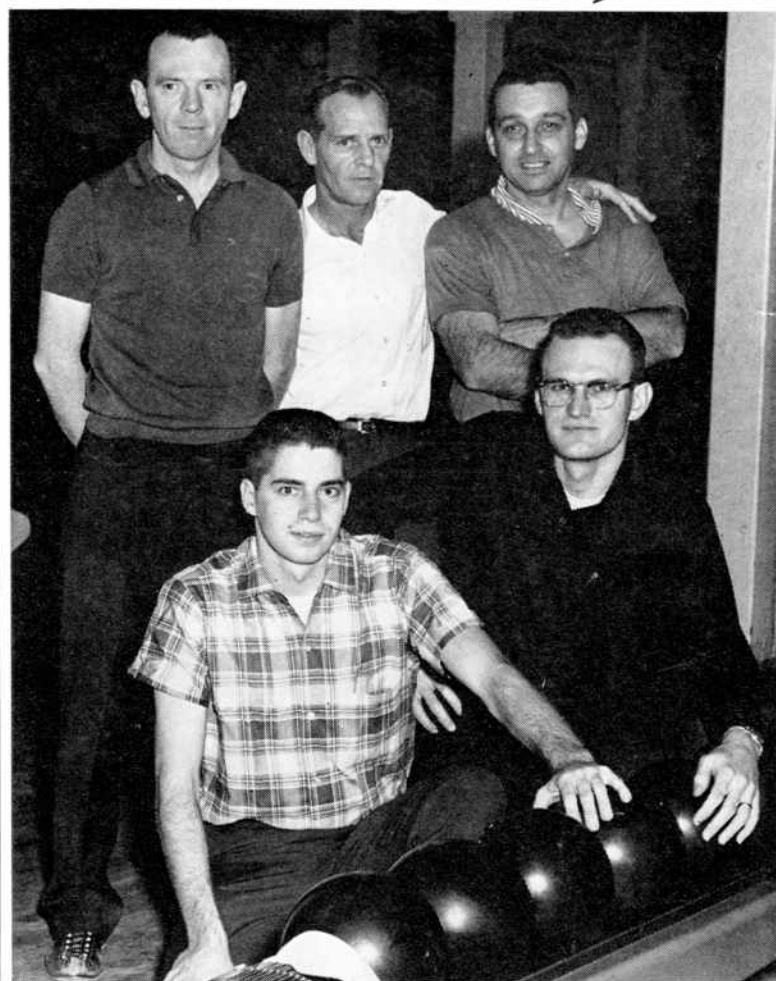
1. H. M. Monday, General Machine Shop, two pounds, 14 ounces.
2. Hugh Stephens, Jr., Mechanical Maintenance, two pounds, three ounces.
3. M. N. Elam, Sunflower Shop, two pounds, two ounces.

ROUGH FISH

1. A. S. Howell, Utilities, Catfish, nine pounds, two ounces.
2. Jim O'Kain, Electrical Engineering, Carp, four pounds, eight ounces.
3. Kenneth B. McNabb, Micro-reproduction and Engineering Services, Carp, four pounds, three ounces.

Bowling Tournament Set For February 24, 25

Y-12 bowlers are reminded that February 9 is the deadline for submitting applications to roll in the Y-12 Annual Bowling Tournament, set for the week-end of February 24, 25. Any employee in a sanctioned league that has rolled 12 games between August 1, 1961 and February 2, 1962 is eligible to participate in the event. Team secretaries have the applications.



RIGHT UP THERE among the best in the 5:45 Carbide League for Bowlers is the Rollmaster team. Last week they won two games, but lost two points in total pin count. They are, from left, kneeling, Bill Brucker and Captain Ron Taylor. Standing are Jack Gamble, Gene Boyd and Jim Cole.

Rollmasters Roll Big In 5:45 League Staying Up There With Top Teams

Split Score Last Week With Pirates

The Rollmasters, Y-12's contribution to the 5:45 League for Carbide Bowlers, won two of their games last week, but lost on final pin count, thus splitting two points with the Pirates.

The sharp Rollmasters are only six points from first place. Bob Greer, Cast-Offs, rolled high scratch game of the night with a 211, boosted to a 237 handicap game. His Cast-Off team also took handicap series honors with 1138, and 2992.

League standings follow:

| Team | W | L |
|--------------------|-----|-----|
| Planners | 50½ | 29½ |
| Headpins | 49 | 31 |
| Sandbaggers | 45 | 35 |
| Rollmasters (Y-12) | 44 | 36 |
| Mix-Ups | 44 | 36 |
| Cast-Offs | 41½ | 38½ |
| Pirates | 39 | 41 |
| Woodpeckers | 38½ | 42½ |
| Lab Demons | 36 | 44 |
| Wallops | 35½ | 44½ |
| Rookies | 29 | 51 |
| Wacos | 28 | 52 |

Next Week Is Deadline For Current Poster Race

Drawing nigh is the deadline for the January poster contest, sponsored by the Safety Department. Next Wednesday, January 31, is announced as the final date that entries will be received.

Prizes for this month's competition are a Sunbeam hair-dryer and drill and jig-saw attachment. The theme of the current poster race is "The Real Meaning of Good Housekeeping — Clean-Up Week."

Any employee in the Y-12 area is eligible to enter, as well as any member of his family. Only previous winners and employees in the Safety Department are ruled ineligible. The name, department, badge number of the entrant, or relation to any employees must appear on each entry. An employee may enter as many poster ideas in the race as he wishes. Just mail the entries to the Safety Department, Building 9704-2.

Work safely — not for safety's sake, but your own!

Guttersnipes Slip A Little In Kingston

The Guttersnipes slipped last week slightly by virtue of their four-point loss to the Head Pins. However, the Y-12 team did cop first place for first half of league play.

Other teams competing saw the Alley Cads over the Sparemen by three; and the Rookies over the Could B's by the same score. Loy Damer, Rookies, took single game honors with a 216/241 score.

League standings follow:

| Team | W | L |
|---------------------|---|---|
| Head Pins | 6 | 2 |
| Guttersnipes (Y-12) | 5 | 3 |
| Alley Cads | 7 | 1 |
| Rookies | 4 | 4 |
| Sparemen | 1 | 7 |
| Could B's | 1 | 7 |

State Of Tennessee Gets Most AEC Surplus

The Atomic Energy Commission's Oak Ridge Operations donated surplus property valued at nearly \$920,000 during 1961 to educational institutions in 21 states and in the Commonwealth of Puerto Rico. Most of this surplus property was equipment.

S. R. Sapirie, manager of Oak Ridge Operations, announced that the majority of this material was received by the state of Tennessee — some \$853,649 worth. Of this amount, \$75,465 worth of equipment went to the University of Tennessee.

This material may be donated to education institutions after it is determined that no other Federal agency has a need for it. Disposition generally is handled through the Department of Health, Education and Welfare.

LEAP FROG

Parachuting frogs found in southern Asia and Africa can dive as much as 50 feet from treetop to treetop, or to the ground.

BULK RATE
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6-10880



ONE HAPPY CREDIT UNION member is James L. Sprouse, Research Services, center, being congratulated for winning the grand door prize, a portable television set. At left are Paul Blakeley, ORNL employee in Y-12 and an out-going board member; and Larry Dickens, son of Milt Dickens, Z Area and Dispatching. Larry did the actual drawing for the television set and also for the silver dollars given away; and, without looking, drew his own name for a dollar!

Mantooth Son Honored By Civil Air Patrol

Represents Ridge Group In Memphis

Joe Mantooth, son of Mr. and Mrs. Hoyt R. Mantooth, 208 Illinois Avenue, Oak Ridge, has been selected to represent Oak Ridge Squadron, Civil Air Patrol as a candidate for the International Air Cadet Exchange. The young CAP cadet's father is in Area Five Maintenance.

Captain James W. McGill, commander of the Oak Ridge Squadron, accompanied Cadet Mantooth to the annual Selection Dinner in Memphis last Saturday, January 20. The cadet competed with other cadets in the Tennessee Wing on the basis of a brief talk on an aviation subject, military bearing and appearance, and his CAP record.

Joe is presently a student at Tennessee Polytechnic Institute, Cookeville, majoring in electrical engineering. He has been a member of the CAP for four years. Last year Joe was selected to represent Tennessee at the Space-Age Orientation Course held at Chanute Air Force Base, Illinois.

Angler's Guide For '62 Available

Distribution of the 1962 Pocket Guide to Tennessee Fishing is now underway. Compiled and published by the Tennessee Game and Fish Commission, the handy summary of the state fishing regulations has been changed to include the most recent changes in both sport and commercial fishing.

Copies of the guide may be obtained free from license dealers, the Nashville, Knoxville, and Crossville offices of the Commission.

Use all the security tools provided.

Credit Union

Continued From Page 1
month. The maximum amount that can be loaned on a house is 60 percent of the appraised value.

It was brought out that the new Credit Union offices has a Family Financial Counseling room, especially for the purpose of discussing financial problems with members and their families. The entrance to the room is on the lower level and does not necessitate coming through the main entrance. Members wishing to use this service should contact Mrs. Causey at the Credit Union to make an appointment for this confidential type counseling.

Semi-Annual Statements

It was voted by the membership to issue statements to members on a semi-annual basis instead of the present quarterly system. This will be in effect after approval of the Federal Bureau of Credit Unions. Statements would be mailed in August and February, giving ample time for the posting of the semi-annual dividends.

One of the relaxing, fun-filled spots came in the meeting when out-going board member Paul Blakeley drew names to award 25 silver dollars to members. Doing the drawing was Larry Dickens, son of Milt Dickens, Z Area and Dispatching. Young Larry was one of the first children members in the Y-12 Credit Union. He drew his own name for a silver dollar.

The names of the "dollar" winners were put back into the box, and the big drawing showed that J. L. Sprouse, Research Services, had won the portable television set. The happy member expressed gratitude for winning the handsome TV set.

It was reported that \$2,465,685.04 was loaned to members during 1961. This financial assistance to Y-12ers has proved invaluable in car payment assistance, reduction of debts, the purchasing of homes, and many other advantages provided by money as well as guidance.

The soundness of the Y-12 credit organization is emphasized by its year-by-year growth.

ORNL 1962 Shipments Set All-Time High

Isotopes Moving Into New Areas

The amount of radioactivity shipped as radioisotopes from the Atomic Energy Commission's Oak Ridge National Laboratory set a new all-time high during 1961.

The 1961 total of radioactive units more than doubled the 1960 figure and represented about 28 percent of the total amount shipped since the isotope program began in 1946.

ORNL made 12,747 shipments of radioisotopes involving 445,648 curies during 1961 compared to 12,724 shipments and 205,675 curies for 1960. The largest prior year was 1959. A curie is defined as a measure of the amount of radioactivity.

St. Louis Gets First

The first shipment of radioactive material was made August 2, 1946 with a shipment of carbon-14 to a cancer research clinic in St. Louis, Mo. Prior to the start of the atomic energy programs in World War II, the use of radioisotopes was severely limited because of scarcity since production was in small amounts in cyclotrons. This changed rapidly when production of radioisotopes began in nuclear energy facilities.

S. R. Sapirie, manager of AEC's Oak Ridge Operations, in commending ORNL for its continued emphasis on the isotopes program with the resulting wider use of radioisotopes, stated, "An interesting sidelight is the fact that all of the curies in all shipments last year were produced and shipped in complete safety."

New Uses Develop

Isotopes are moving into new areas of use. Strontium-90 isotopic power sources are used for SNAP devices in remote weather stations and sea buoys, plutonium-238 for space applications, and cobalt-60 for food and chemical radiation research.

ORNL, one of the nation's largest nuclear energy research and development laboratories, is operated by Union Carbide Nuclear Company for the AEC.

91,719 Game Fish Saved At Cherokee

Fish rescue teams of the State Game and Fish Commission during the last three months of 1961 recovered 91,719 fish from the receding waters of Cherokee Lake. Mack Sellers, foreman of the fish rescue project, stated that included among the desirable species of fish salvaged were 35,847 large-mouth bass, 29,077 white crappie, and 20,166 bluegill. In addition to the recovery of the game fish, 40,701 pounds of shad and carp were removed during the operation. Non-game fish are usually destroyed in these salvage operations.



"SHE JUST SAID 'Thanks for putting in Preston,'" says Bill Doughty, chief operator at Carbide's Texas City plant, and also a part-owner of a service station. It's a good reminder that the time has come to watch the cooling system in the old jalopy.



THE BEAUTIFULLY DESIGNED Brightwater Tower, St. Petersburg, Fla., is wrapped in a "cocoon" shell of vinyl plastic. Developed from the Navy's "mothballing" process, the exterior covering withstands time, weathering, and the elements far better than protective paint. The plastic spray is made from Bakelite vinyl.

Plastic Spray Made From Vinyl Offers Sure Protection From Weather For 10-Year Period

Fleet "Moth-Balling" Brought Development

A sprayed-in-place vinyl sheathing is being specified more and more frequently by architects to protect and decorate exterior building surfaces.

One of the latest applications of the protective plastic system was completed recently on the new Brightwaters Tower cooperative apartment building in St. Petersburg, Fla. Located on an island in Tampa Bay, directly exposed to sunlight, salt air and seasonal heavy rains, the building is covered with a liquid vinyl formulation, sprayed in place with "Cocoon" coating, an outgrowth of the technique used to "mothball" many United States Naval vessels.

Quite unlike conventional coatings, the thick (15-30 mils) coating conceals the grain and form marks in poured concrete, as well as joints, seams and other imperfections in metal, wood and other materials of construction. Once applied, the texture of the structure becomes that of vinyl, giving the building unity of design.

Dries In One Hour

After drying, the film is flexible and elastic, so that any expansion or contraction of the coated surface cannot mar its integrity. The coating dries to the touch in one hour.

In addition to beauty, the plastic coating has excellent weathering characteristics. It can be expected to last at least 10 years before any touch-up is necessary. At the end of that period, a thin refresher coat of 1 or 2 mils will extend its life for a similar length of time.

Colors Available

Two colors were used on the job, brown and white. However, the "Cocoon" vinyl coatings are available in a variety of colors, and, for special jobs, decorator colors may be obtained as desired.

The plastic spray is made from Bakelite vinyl produced by Union Carbide Plastics Company.

Cost of the Brightwaters Tower job averaged 33 cents per square foot. Waterproof paint would have cost 14 cents. Thus the vinyl, with a proven life of 10 years compared with a two-year life for waterproof paint, cost 50% less than paint.

THIN SKINNED ECHO

The skin of Echo I is a polyester plastic about half the thickness of the cellophane in a package of cigarettes.

straight day. Jake Lusk, plant phone 7139, home phone Oak Ridge 483-5787.

Ride wanted or will join car pool from 101 Wayside Road, Jefferson at West Outer Drive, Oak Ridge to Central Portal, straight day. Bob Roe, plant phone 7519, home phone Oak Ridge 483-1070.

Will join car pool from Cumberland Estates, Knoxville, to East Portal, straight day. Charles Whitmarsh, plant phone 7362, home phone Knoxville 588-6383.

Wants car pool member from Norris to East, North or Central Portal, straight day. Herbert Reynolds, plant phone 7213, home phone Norris 7681.

Ride wanted from Hackworth Road, Karns Community, to Central Portal, straight day. B. L. Fritts, plant phone 7009, home phone Knoxville 588-6175.

Ride wanted or will join car pool from Cedar Lane at Montrose, Fountain City, to West Portal, straight day. Jack Ewing, plant phone 7-8487, home phone Knoxville 689-6575.

Ride wanted from North Knoxville, corner of Fairmont and Broadway, to East or North Portal, G Shift. H. A. Pobe, plant phone 7-8298, home phone Knoxville 687-5060.

Ride wanted from Pine Road, Norris, to Central or West Portal, J Shift. E. B. Blair, plant phone 7573.

Ride wanted or will join car pool from Powell Heights to West Portal, straight day. Jack Anderson, plant phone 7-8811, home phone Powell 947-6202.

Wants to join car pool from East Village, to West Portal, straight day. Ken Pluhar, plant phone 7-8811, home phone Oak Ridge 483-1282.

Riders wanted from South Knoxville to any portal, straight day. E. E. Cook, plant phone 7-8445, home phone Knoxville 577-4786.

Riders wanted from Athens, via Sweetwater, Loudon, Lenoir City to any portal, straight day. A. R. Shamblin, plant phone 7181, home phone Athens SH 5-2833.

Riders wanted or will join car pool from vicinity of Walker's Chevrolet, to Central or West Portal, A Shift. Boyd Carter, plant phone 7-8669, home phone Clinton 457-1555.

Riders wanted from Clinton to any portal, A Shift. J. C. Queener, home phone, Clinton 457-2935.

Ride wanted from corner LaSalle Road, Robertsville Road, Oak Ridge, to Bear Creek Portal,